

ABSTRACT

An imaging system according to the invention can switch the automatic exposure control and the double exposure control depending on the state of the intensity of the image and supply a sharp image by restraining the blooming even in the case of having a strong illuminant such as an oncoming headlamp at night as well as by preventing from flicker even in the case of having no strong illuminant. It includes an IR lamp for radiating an infrared ray forward, a CCD camera for taking an image in the forward direction and converting the image into an electric signal, and an image processing unit which can be switched between an automatic exposure control for continuously and periodically supplying the images at a predetermined cycle of the signal accumulating time of the CCD camera and a double exposure control for varying the signal accumulating time of the CCD camera at a predetermined cycle and continuously and periodically supplying the images of different light exposure amount, and the image processing unit switches the automatic exposure control and the double exposure control depending on the state of the intensity of the image.